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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/732,989	12/11/2003	Напту Ваптом	57.0479 US NP	1390
7590 07/29/2005			EXAMINER	
SCHLUMBERGER-DOLL RESEARCH			THOMPSON, KENNETH L	
Intellectual Property Law Department 36 Old Quarry Road Ridgefield, CT 06877-4108			ART UNIT	PAPER NUMBER
			3672	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Astion Commons	10/732,989	BARROW, HARRY				
Office Action Summary	Examiner	Art Unit				
	Kenneth Thompson	3672				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed. 6) Claim(s) <u>1,3 and 12</u> is/are rejected.						
7)⊠ Claim(s) <u>2 and 4-11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>11 December 2003</u> is/are: a)  accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	s have been received in Application	on No				
3. Copies of the certified copies of the prior	* · · · · · · · · · · · · · · · · · · ·	ed in this National Stage				
application from the International Bureau	, ,,					
* See the attached detailed Office action for a list	or the certified copies not receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4/04.</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

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#### **DETAILED ACTION**

#### **Drawings**

Figure s 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Sorrells et al., U.S. 5,996,726.

Regarding claim 1, Sorrells et al. discloses a providing a prior location probability distribution associated with a first position of the device (fracture movement) in the borehole (col. 5, lines 58-61), providing a measurement of a putative distance moved by the device (col. 6, lines 11-25), and calculating a posterior location probability distribution associated with the subsequent position(col. 6, lines 34-45), the posterior location probability distribution being conditional on the prior location probability distribution.

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Art Unit: 3672

As to claim 3, Sorrells et al. discloses a hydrocarbon well (col. 1, lines 7-10).

As to claim 12, Sorrells et al. discloses a computer system (20,24).

## Allowable Subject Matter

Claims 2, 4-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or suggest all the claimed subject matter including the posterior location probability distribution becoming the prior location probability distribution.

The prior art of record does not disclose or suggest all the claimed subject matter including the device being a logging tool.

The prior art of record does not disclose or suggest all the claimed subject matter including the device being a drill string bottom hole assembly.

The prior art of record does not disclose or suggest all the claimed subject matter including measuring the putative distance moved.

The prior art of record does not disclose or suggest all the claimed subject matter including indication whether the device is adjacent a casing collar.

The prior art of record does not disclose or suggest all the claimed subject matter including gamma-ray emission measurement.

The prior art of record does not disclose or suggest all the claimed subject matter including the representation of probability distribution resulting from at least one measurement is not zero-mean Gaussian.

Art Unit: 3672

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 7:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

27 July 2005

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